Q.P. Code :12031

[Time: Three Hours]	Marks:10
---------------------	----------

Please check whether you have got the right question paper.

N.B: 1. All questions are compulsory.

- 2. **Figures** to the **right** indicate **full marks**.
- 3. Draw neat and labelled diagrams wherever necessary.

Q.1	A.	Choose the correct	t option from the following					
	(a)	The chloroplast in <i>Spirogyra</i> is						
		(i) Disc shaped	(ii) Spiral	(iii) Stellate (iv)	Peltate			
	(b) Spirogyra belongs to Division							
		(i) Chlorophyta	(ii) Phaeophyta	(iii) Rhodophyta	(iv) Cyanophyta			
	(c)reproduction is absent in <i>Nostoc</i> .							
		(i) Vegetative	(ii) Sexual	(iii) Asexual	(iv) None of the above			
	(d)	Reserve food mate	erial in Chlorophyta is					
		(i) oil and proteins	(ii) starch and pyreno	ids (iii) protein an	d starch (iv) protein and fats			
	(e)	Mass of delicate , y						
		(i) mycelium	(ii) spore	(iii) columella	(iv) rhizoids			
	(f)	f) Cytoplasm in the hyphae of <i>Rhizopus</i> contains						
		(i) One nucleus	(ii) numerous chlorop	olasts (iii) numero	us minute nuclei (iv) few vacuoles			
	(g)							
		(i) Mucorales	(ii) Erysiphales	(iii) Aspergillales	(iv) Pucciniales			
	(h)	h) is a Liverwort.						
Á		(i) Funaria	(ii) Anthoceros	(iii) Polytrichum	(iv) <i>Riccia</i>			
	(i)		of <i>Riccia</i> is a	200 C.				
		(i) gametophyte	(ii) sporophyte	٬ (iii) sporophyte on و	gametophyte			
20 Z		(iv) gametophyte on sporophyte						
9	(j)	(j) The ventral surface of <i>Riccia</i> thallus possesses						
7.70	68	(i) scales (ii)	smooth walled rhizoids	(iii) tuberculated rhi	zoids (iv) All of the above			

Q.P. Code :12031

B.		Answer the following in one sentence :	10
	(a)	What is heterocyst?	766
	(b)	Define conjugation in Algae.	997 977
	(c)	Name the female sex organ in Aspergillus.	
	(d)	Name the asexual reproducing body in <i>Rhizopus</i> .	3000
	(e)	Give the functions of scales in <i>Riccia</i> .	
Q.2		Answer any two from the following:	20
	(a)	Write a detailed note on range of thallus in Chlorophyta.	1
	(b)	Explain methods of vegetative and sexual reproduction in <i>Nostoc</i> .	
	(c)	Describe the types of conjugation in <i>Spirogyra</i> .	
	(d)	Give a detailed account of economic importance of Algae.	
Q.3		Answer any two from the following:	20
	(a)	Describe asexual reproduction in Rhizopus. Add a note on its systematic position.	
	(b)	Discuss sexual reproduction in Aspergillus.	
	(c)	Give economic importance of Fungi.	
	(d)	Describe the modes of nutrition in Fungi.	
Q.4		Answer any two from the following:	20
	(a)	With the help of neat, labelled diagram, explain the alternation of generations in Riccia.	
	(b)	Give a detailed account of the V.S. of <i>Riccia</i> thallus.	
	(c)	Describe the external morphology of <i>Riccia</i> . Add a note on its systematic position.	
	(d)	Discuss the sporophytic generation in <i>Riccia</i> .	
Q.5		Write short notes (any four)	20
67 (S)	a)	Structure of <i>Nostoc</i> filament	
2,89	b)	Vegetative cell of <i>Spirogyra</i>	
9 7 E	c)	Ascocarp of Aspergillus	
	d)	Fungi as food	
2000 F	e)	Structure of antheridia and male gamete in <i>Riccia</i>	
	9	******	

Page **2** of **2**